SEQUENCE LISTING

	110-	Lo	oughn	ne;,	Kate	<u> </u>											
	120	. Pł	nosph	odie	ester	ase	10										
	130	. 27	1866.	3530	8 (8												
			9/256 999 C														
	150 151.		0/075 998 - 0														
	160:	2.6															
	170.	Pá	atent	In V	/er.	2.0											
	210: 211: 212: 213:	1 5 D1		sapie	ens												
·	220: 221: 222:	CI	DS 26)	(142	23)												
	400: ccaa		cca t	ctac	cctgg	ga ca	atcg				tta Phe						32
Ĺ			aga Arg														100
			agc Ser														148
			aat Asn														196
9	ag a lu I	aa ys	ogo Arg 60	gtg Val	gaa Glu	ttg Leu	gaa Glu	gga Gly 65	ota Leu	aaa Lys	gtg Val	gtg Val	gag Glu 70	att Ile	gag Glu	aaa Lys	24-
			agt Ser														291
3			acc Thr														340
			act Thr														398

		110				115			120	
				gcc Ala						436
				atg Met						484
				gac Asp 160						532
				cac His						580
				tgc Cys						628
				gag Glu						676
				tgc Cys						724
				gcc Ala 240						772
				aac Asn						820
				aac Asn						868
				gga Gly						916
				att Ile						964
				gag Glu 320						1012
_		 _	_	atc Ile		_	_		-	1060

goa gag oot tgg gtg gap tgt tta tta gag gaa tat ttt atg dag agd — 110 Ala Glu Pro Trp Mal Asp Cys Leu Leu Glu Glu Tyr Phe Met Gln Ser 350 — 355 — 360	8 (
gad ogt gag dag tod gad ggo ott oet gtg gcd oog tto atg gad ogd - 115 Asp Arg Glu Lys Ser Glu Gly Leu Pro Val Ala Pro Phe Met Asp Arg 365 - 370 - 375	56
gad aaa gtg add aag god ada god dag att ggg ttd atd aag ttt gtd - 120 Asp Lys Val Thr Lys Ala Thr Ala Gln Ile Gly Phe Ile Lys Phe Val 380 - 385 - 390)4
otq atc oca atq ttt qaa aca qtq acc aag ctc ttc occ atg qtr gag - 10° Leu Ile Pro Met Phe Glu Thr Zal Thr Lys Leu Phe Pro Met Val Glu 395 - 400 - 405	52
gag atd atg dtg dag dda dtt tgg gaa tod dga gat dgo tad gag gag — 130 Glu Ile Met Leu Gln Pro Leu Trp Glu Ser Arg Asp Arg Tyr Glu Glu 410 — — 420 — 425	00
ctg aag ogg ata gat gad god atg aaa gag tta dag aag aag act gad — 134 Leu Lys Arg (le Asp Asp Ala Met Lys Glu Leu Gln Lys Lys Thr Asp 430 — 435 — 440	18
ago titg acg tot ggg god acc gag aag too aga ggg aga ago aga gat 139 Ser Leu Thr Ser Gly Ala Thr Glu Lys Ser Arg Gly Arg Ser Arg Asp 445 450 455	96
gig aaa aan agt gaa gga gac tgt god tgaggaaagd ggggggggtg — 149 Val Lys Ash Ser Glu Gly Asp Cys Ala 460 — 465	13
getgeagtte tggaeggget ggeegagetg egegggatee ttgtgeaggg aagagetgee 150	3
etgggdadet ggbaddada gaddatgttt totaagaade atttt 154	18
<210 > 2 <211 > 465 <212 > PRT <213 > Homo sapiens	
<pre><4008 2 Met Asp Ala Phe Arg Ser Thr Pro Tyr Lys Val Arg Pro Val Ala Ile</pre>	
1 5 10 15	
l 5 10 15 Lys Gln Leu Ser Glu Arg Glu Glu Leu Ile Gln Ser Val Leu Ala Gln	
Lys 3ln Leu Ser Glu Arg Glu Glu Leu Ile Gin Ser Val Leu Ala Gln 20 25 30 Val Ala Glu Gln Phe Ser Arg Ala Phe Lys Ile Asn Glu Leu Lys Ala	

Met	Arg	Glu	Glu	Leu 85	Ala	Ala	Arg	Ser	Ser 90	Arg	Thr	Asn	Cys	Pro 95	Cys
Lÿs	Tyr	Ser	Phe 100	Leu	Asp	Asn	Ніѕ	Lys 105	L∵s	Leu	Thr	Pro	Arg 110	Arg	Asp
Val	Pro	Thr 115	Tyr	Pro	L,s	Tyr	Leu 120	Leu	Ser	Pro	Glu	Thr 125	Ile	Glu	Ala
Leu	Arg 130	Lys	Pro	Thr	Phe	Asp 135	Val	Trp	Leu	Trp	Glu 140	Pro	Asn	Glu	Met
Leu 145	Ser	Cyc	Leu	Clu	Ніс 150	Met	Tyr	His	Asp	Leu 155	917	Leu	Val	Arg	2ap 160
Phe	Ser	Ile	Asn	Pro 165	Val	Thr	Leu	Arg	Arg 170	Trp	Leu	Phe	Cys	Val 175	His
Asp	Asn	Tyr.	Arg 180	Asn	Asn	Pro	Phe	His 185	Asn	Phe	Arg	His	Cys 190	Phe	Cys
Val	Ala	Gln 195	Met	Met	Tyr	Ser	Met 200	Val	Trp	Leu	Cys	Ser 205	Leu	Gln	Glu
Lys	Phe 210	Ser	Glr.	Thr	Asp	Ile 215	Leu	Ile	Leu	Met	Thr 220	Ala	Ala	He	Cys
His 225	Asp	Leu	Asp	Ніз	Pro 230	Gly	туг	Asn	Asn	Thr 235	Tyr	Gln	He	Asn	Ala 240
Arg	Thr	Glu	Leu	Ala 245	Va!	Arg	Tyr	Asn	Asp 250	Ile	Ser	Pro	Leu	Glu 255	Asn
His	Нίε	Cys	Ala 260	∀al	Ala	Phe	Gln	Ile 265	Leu	Ala	Glu	Pro	Glu 270	Cys	.Asn
lle	Ph÷	Ser 275	Asn	Ile	Pro	Pro	Asp 280	Gly	Phe	Lys	Gln	11€ 285	Arg	Gln	Gly
Met	Tle 290	Thr	Leu	Il∈	Leu	Ala 295	Thr	Asp	Met	Ala	Arg 300	His	Ala	Glu	lle
Met 305	Asp	Ser	Ph∈	Lys	Glu 310	Lys	Met	Glu	Asn	Phe 315	Asp	Tyr	Ser	Asn	31u 320
Glu	His	Met	Thr	Leu 325	Leu	Lys	Met	Ile	Leu 330	Ile	Lys	Cys	0/s	Asp 335	ile
Ser	Asn	Glu	Val 340	Arg	P10	Met	Glu	Val 345	Ala	Glu	Pro	Trp	Val 350	Asp	∵ys
Leu	Leu	Glu 355	Glu	Тут	Phe	Met	Gln 360	Ser	Asp	Arg	Glu	Lys 365	ser	Glu	Jly
Leu	Pro 370	Val	41a	Pro	Phe	Met 375	Asp	Arg	Asp	Lys	Val 380	Thr	Lys	Ala	Thr
Ala	Gln	lle	зіу	Phe	ile	Lys	Phe	Val	Leu	Ile	Pro	Met	Filte	Glu	Thr

385 390 395 400 Val Thr Lys Leu Phe Pro Met Val Glu Glu Ile Met Leu Gln Pro Leu 405 410 415 Trp Glu Ser Arg Asp Arg Tyr Glu Glu Leu Lys Arg Ile Asp Asp Ala Met Lys Glu Leu Gln Lys Lys Thr Asp Ser Leu Thr Ser Gly Ala Thr 440 435 Glu Lys Ser Arg Gly Arg Ser Arg Asp Val Lys Asn Ser Glu Gly Asp 455 460 450 Cys Ala 465 :210 > 3 <211 × 225 <212 > DNA «213» Homo sapiens :220. <223 - Nucleotides at positions 130, 186, and 205 are either A, T, G, or C. <400 - 3 agogaccgtg agaagtwaga aggccttcct gtggaaccgt tcatggaccg agacaaagtg 60 accaaqqoba caqoobaqat tigqqttoato aagtttgccc tgatoocaat gtttgaaaca 120 gtgaccaagn tottocccat ggttgaggag atcatgctgc agccactttg ggaatcccga 180 gatogntang aggagetgaa goggntagat gacgccatga aagag 225 <210 4 <211 - 158 <:212 > DNA <213 > Homo sapiens <220 -<223 - Nucleotides at positions 12, 36, 61, and 109 are</p> either A, T, G, or C. <400 - 4 gtaccagate antgeregea ragagetgge ggteegntad aatgacatet caccgttgga 60

<210 × 5 <211 × 98 <212 + DNA

<213 - Homo sapiens

ccaadatees acctgatggg ttcaagcaga tccgacag

158

gnaaccacca otgogo.gtg goottocaga tootogooga gootgagtgn aacatottot 120

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<220>
:2235 Nucleotides at positions 14, 20, and 50 are either
      A, T, C, or G.
:400: 5
gagaacacca otgngcogtg gnottocaga tootogooga gootgagtgn aacatottot 60
                                                                   98
toaacatooc acctgatggg ttcaagcaga tocgacag
:210: 6
:211: 418
:212: DMA
:213: Homo sapiens
:220:-
:223: Nucleotides at positions 1, 267, 352, 400, and 411
      are either A, T, G, or C.
<400> 6
ngqttaactg gcqcatcttg totttototg agaacagoga totggttatg gggcatttct 60
grototaatg toactgrotg ofgcattooc tgcagagoga cogtgagaag toagaaggoo 120
ttcccgtggc cccgttcatg gaccgagaca aagtgaccaa ggccacagcc caggattggg 180
tttcatcaag tttgrootga toocaatgtt tgaaabagtg accaagetch tooccatggg 240
ttgagggaga ttbatgctgg cagocanttt ggggaatooc gaggattogc tacgagggag 300
cttgaagcgg gattaggatg gacggccatg gaaaggagtt ttacaggaag gnaggatttg 360
acagttttga agttttgggg gggccaccga ggaagttccn ggaggaggag naggcaga
<2105 7
<211> 428
<212: DNA
<213> Homo sapiens
<220>
<223> Nucleotides at positions 1, 82, 92, 130, 347, 390,
      and 396 are either A, T, G, or C.
<400> 7
naqaaaaaaq tqaacaaaat qqttcttaqa aaacatqqtc ttqtqqtgcc aggtgcccag 60
ggagetette detgeadaag gnteedgege anteggedag bedgteeaga actgeageda 120
ogeocoogn throat sagg cacaguetes theastgift theacatote tgettetete 180
totggaotto toggtggood dagaogtdaa getgtoagto ttottotgta actotttoat 240
gggogteate tateogette ageteetegt aggegatete ggggatteee aaagtggget 300
geagoatgat officetraac catggggggg aggagottgg ggbactngtt ttcaaaaatt 360
gggggatcag gggacaaact ttgattggan cocatnitgg ggottitggg cottiggggc 420
```

```
428
aatttttg
 210 / 8
 211.438
 2125 DNA
 213 Homo sapiens
< 220:
+223 Mucleotides at positions 63, 98, 107, 188, 203,
      236, 238, 252, \overline{297}, 370, 389, and 42^{\circ} are either
      A, I, G, or C.
.400 €
ttttttttttt ttttttttgt atcagtgaad aaaatggits rtagaaaaca tggtdttgtg 60
gtnocaggig occagggage tottocotge acaaggank ogegeanteg gecagecegt 120
coagnacted agreaceded decettites teageranay intestioad tetititeae 180
atototgntt ototototgg gantthtogg tigggoonday aacgtoaago tigtdagthtt 240
strengtags intitioating gentleateta teonitican ettectoria generating 300
gggAtteesa aagtgggetg gsagsatgga tettestsaa assatggggg gaaggagttt 360
gggtmaattn tiittaaaaac attgggggnt cagggamaaa attitigatgg aaacccaatt 420
                                                                    438
tggaggntgt gggcettg
<210: 9
<211> 263
<2135 DNA
<213> Mus musculus
2400× 9
gagaattitty aptabagbaa ogaggagbab otgabbooky tigaagatgat totbataaaa 60
tgotgtgata totocaatga agtocgtoco atggaggtqq cagaatogtg ggtggactgt 120
ttactggaag aatattttat geagagtgae egtgagaagt eegaageett eetgtggeee 180
catteatgga degagadaaa gtgaddaaag daacagddda aattgggtto atcaagtttg 240
tootgatood aatgittgaa ad
                                                                    262
<210:- 10
<211: 250
<212: DNA
<213> Mus musculus
<400> 10
gagaattttg Astabagbaa ogaggagbab otgabbntur tgaagatgat totbataaaa 60
```

_

tgctgtgata :ctccaatga agtccgtccc atggagg*44 cagaatcgtg ggtggactgt 120

ttactuussa aatattttat qoaqagtgao ogtgayaagt oogaagoott votgtggood 180 atteatudae egagabaaag tgabbaaagb aabagbbaaa ttgggttbat maagtttgtb 240 250 tgtcciargt <210 11 <211 - 459 :212 - LNA <213 > Homo sapiens <223 - Dagleotides at positions 155, 393, and 442 are</pre> either A. T. G. or C. <400 > 11 attaatiitty qodabtgada tygbaagada tybaajaaatt atygattott idaaagagaa 60 aatggagaat titgactaca gcaacgagga gcacatgacc ctggtgagtg gcttattctg 120 cetgggtugg bagebaggeg gttgggetgg egaanaggtt catecateca geteacactg 180 gaagenaaga agetgaaatt attagtette ttggaacaag gtgtstataa atetggtttt 240 chaggioning activitacia ggaaagtoog ggcagngoot scottotigat gggtootoot 300 toatggthag aggrageatt steecattee tecatetett tigggattit gaaggagata 360 audtggggtg aaggeegtge attetegete tyntilteda gagaattaaa accagtttte 420 cottgasygo adageoccag entggeattt tgaasqttg 459 <210 × 12 :211: 509 :212 - DNA -213 - Homo sapiens :220> :221> CDS :222 - (443) (400» 11) tggchotuga ggccaagaat toggcacgag tggt labtg gegcatottg totttototg 60 agaacaanga totggttatg gggoatttot gtot maa tgt dad tgt dtg dtg cat 116 Cys His Cys Leu Leu His too of a dag ago gad ogt gag aag toa qaa ggo ott ood gtg god oog 164 Ser Leu Gln Ser Asp Arg Glu Lys Ser G.4 Gly Leu Pro Val Ala Pro 10 tto acu gao oga gao aaa gtg aco aag gir aca goo cag att ggg tto 212 Phe Mer Asp Arg Asp Lys Val Thr Lys A. > Thr Ala 3ln Ile 3ly Phe 25 30

Ile Lys Phe			Met Ph			aag oto tt Lys Leu Ph	
odo atg gtf Pro Met Val 55					u Trp Glu		9
ogo tao gag Arg Tyr Glu							
aag aag act Lys Lys Tor			Ser Gl				
aga ago aga Arg Ser Arg 105						tgaggaaagc	453
gggggggtg (getgeagt	to tggad	gggat g	googagete	g egoggga	too tigigaa	ggg 513
aagagstgcc c	otgggdad	ct ggcac	cacaa g	accatgtt	t totaaga	acc attttgt	tca 573
otgatadaaa a	аааааааа	aa aaaaa	a				599
<210 > 13 <211 > 115 <212 > PRT <213 > Homo s	sapiens						
<211> 115 <212> PRT	•	His Ser	Leu Gl	n Ser Asp 13	o Arg Glu	Uys Ser Gl	ı
<pre><211> 115 <212> PRT <213> Homo s <400> 13 Cys His Cys</pre>	Leu Leu 5		Met As	10	-	15	
<pre><211> 115 <212> PRT <213> Homo s <400> 13 Cys His Cys 1</pre>	Leu Leu 5 Val Ala 20	Pro Phe	Met As	10 p Arg Asp 5	o Lys Val	Thr Lys Al	a
<pre><211> 115 <212> PRT <213> Homo s <400> 13 Cys His Cys 1 Gly Leu Pro Tht Ala Clr.</pre>	Leu Leu 5 Val Ala 20 Ile Gly	Pro Phe	Met As 2 Lys Ph 40 Met Va	p Arg Asp 5 e Val Let	p Lys Val u Ile Pro 45	Thr Lys Al. 30 Met Phe Gl	a J
<pre>c211> 115 c212> PRT c213> Homo s c400> 13 Cys His Cys 1 Gly Leu Pro The Ala Glr. 35</pre>	Leu Leu 5 Val Ala 20 Ile Gly Lys Leu	Pro Phe Phe Ile Phe Pro	Met As 2 Lys Ph 40 Met Va	p Arg Asp 5 e Val Lei l Glu Gli	p Lys Valuation Ille Pro 45 u Ille Met 60 u Lys Arg	Thr Lys Al 30 Met Phe Gl Leu Gln Pr	a u o
<pre>c211> 115 c212> PRT c213> Homo s c400> 13 Cys His Cys 1 Gly Leu Pro The Ala Glr.</pre>	Leu Leu 5 Val Ala 20 Ile Gly Lys Leu Ser Arg	Pro Phe Phe Ile Phe Pro 55 Asp Arg	Met As 2 Lys Ph 40 Met Va	p Arg Asp 5 e Val Leu l Glu Glu u Glu Leu 7!	p Lys Val Ile Pro 45 Ile Met 60 Lys Arg	Thr Lys Al. 30 Met Phe Gl Leu Cln Pr Ile Asp As	a D D

Asi Cys Ala

```
<210 > 14
:211 > 28
:212 - DNA
<213 - Artificial Sequence</p>
:220 -
:223 - Description of Artificial Sequence: primer
<400 - 14
                                                                     0.8
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<210 15
.211 23
:212 - DNA
:213 Artificial Sequence
H223 - Description of Artificial Sequence: primer
:400 > 15
                                                                     28
gtcaaagcht adatggtott gtggtgoo
4210× 16
-:211 > 1303
42125 DNA
:213 - Homo sapiena
4:220 ×
:221 / CDS
:222 > (107) . . (1065)
:400 > 16
Higtgactora officialgada atgtgadaet tegtgtaggt actcagtada teagtadatt 60
ettachadeg trageceeda geetagetat ggaggqtgca tgetga gee etg gag
                                                                     115
                                                     Ala Leu Glu
                                                       1
eac atg tac cac gae etc ggg etg gtc agg gac tte age atc aac ent
                                                                     163
His Met Tyr His Asp Leu Gly Leu Val Arg Asp Phe Ser Ile Asn Pro
                          10
gto add oto agg agg tgg otg tto tgo gto cac gad aad tac aga aad
                                                                     211
Val Thr Leu Arg Arg Trp Leu Phe Cys Val His Asp Asn Tyr Arg Asn
and bot the case and the bgg basetge the tgc gtg god bag atg w\, \psi
                                                                     259
Ash Pro Phe His Ash Phe Arg His Cys Phe Cys Val Ala Gln Met Met
tac age atg gto tgg oto tgc agt oto dag gag aag tto toa daa akg
                                                                     307
Tyr Ser Met Val Trp Leu Cys Ser Leu Gln Glu Lys Phe Ser Gin Thr
gat att otg att ota atg aca gog god att tgo dad gat otg gad iit
Asp Ile Leu Ile Leu Met Thr Ala Ala Ile Cys His Asp Leu Asp His
```

		7 C					7.5					80				
						tac Tyr 90										403
						tca Ser										451
						gag Glu										499
						cag Jln										547
						aga Arg										595
						gac Aap 170										643
						aaa Lys										591
						act Pro										739
						Jlu Jag										787
						gtg Val										835
atc Ile	aag Lys 245	ttt Pne	gtc Val	otg Leu	atc Ile	cca Pro 250	atg Met	ttt Phe	gaa Glu	aca Thr	gtg Val 255	acc Thr	aag Lys	ctc Leu	tt: Phe	883
						atg Met										931
						Ard Gåd										9"9
						aca Thr										1027

Arg Ser Arg Asp Val	Lys Asn Ser 315	Giu Gly Asp	Cys Ala 320		
ggggggggtg getgeagt!	c tggacgggct	ggcogagetg	ogogggatoc	ttgtg:aggg	1136
aagagetgse etgggeace	t ggcaccacaa	gaccatgttt	totaagaaco	attttgttca	1196
ctgatacaaa aaaaaaaaa	g gaattoatga	tgctgtacag	aattttattt	ttaaactgtc	1256
ttttaaataa tatattoti	a tacggaaaaa	ааазаааааа	ааааааа		1303

aga age aga gat gtg aaa aac agt gaa gga gae tgt gee tgaggaaage 1076

:210> 17

<400> 17

Ala Leu Glu His Met Tyr His Asp Leu Gly Leu Val Arg Asp Phe Ser 1 5 15

Ile Asn Pro Val Thr Leu Arg Arg Trp Leu Phe Cys Val His Asp Asn 20 25 30

Tyr Arg Asn Asn Pro Phe His Asn Phe Arg His Cys Phe Cys Val Ala 35 40 45

Gln Met Met Tyr Ser Met Val Trp Leu Cys Ser Leu Gln Glu Lys Phe 50 60

Ser Gln Thr Asp Ile Leu Ile Leu Met Thr Ala Ala Ile Cys His Asp 65 70 75 80

Leu Asp His Pro Gly Tyr Asn Asn Thr Tyr Gln Ile Asn Ala Arg Thr
85 90 95

Glu Leu Ala Val Arg Tyr Asn Asp Ile Ser Pro Leu Glu Asr His His 100 105 110

Cys Ala Val Ala Phe Gln Ile Leu Ala Glu Pro Glu Cys Asn Ile Phe 115 120 125

Ser Asn Ile Pro Pro Asp Gly Phe Lys Gln Ile Arg Gln Gly Met Ile 130 135 140

Thr Leu Ile Leu Ala Thr Asp Met Ala Arg His Ala Glu Ile Met Asp 145 150 155 160

Ser Phe Lys Glu Lys Met Jlu Asn Phe Asp Tyr Ser Asn Glu Glu His

Met Thr Leu Leu Lys Met Ile Leu Ile Lys Cys Cys Asp Ile Ser Asn 180 185 190

Glu Val Arg Pro Met Gla Val Ala Glu Pro Trp Val Asp Dys Leu Leu 195 200 205

^{-:211&}gt; 320

^{::212&}gt; PRT

^{-: 213 &}gt; Homo sapiens

Val Ala Pro Phe Met Asp Arg Asp Lys Val Thr Lys Ala Thr Ala Gln 235 230 235 240	
He Gly Phe He Lys Phe Val Leu He Pro Met Phe Glu Thr Val Thr 245 250 255	
Lys Leu Phe Pro Met Val Glu Glu Ile Met Leu Gln Pro Leu Trp Glu 260 265 270	
Ser Arg Asp Arg Tyr Glu Glu Leu Lys Arg He Asp Aso Ala Met Lys 275 230 285	
Glu Leu Gln Lys Lys Thr Asp Ser Leu Thr Ser Gly Ala Thr Glu Lys 290 295 300	
Ser Arg Glu Arg Ser Arg Asp Val Lys Asn Ser Glu Gly Asp Cys Ala 305 310 315 320	
<pre>210> 18 .211> 1387 .212> DNA .2213> Homo sapiens <220> .221> CDS .222> (74)(1672)</pre>	
\$4002 To	
ctoddddgdd tdddgdgggg gdtggdgtog qgaaagtaba gtaaaaagto ogagtgdago	
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etcodeegee tedegoggeg getggegtog ggaaagtaba gtaaaaagte egagtgeage eggegggege agg atg gga tee gge tee tee agg tae egg eec aag gee Met Gly Ser Gly Ser Ser Tyr Arg Pro Lys Ala 1 5 10	
etcodecegee tedegoggeg getggegteg ggaaagtata gtaaaaagte egagtgeage eggegggege agg atg gga tee gge tee tee age tae egg eee aag gee Met Gly Ser Gly Ser Ser Ser Tyr Arg Pro Lys Ala 1 5 10 ate tae etg gae ate gat gga ege att eag aag gta ate tte age aag Ile Tyr Leu Asp Ile Asp Gly Arg Ile Gln Lys Val Ile Phe Ser Lys 20 25	109
etcodecode teccogogog getggegteg ggaaagtata gtaaaaagte egagtgeage eggegggege agg atg gga tee gge tee tee age tae egg eee aag gee Met Gly Ser Gly Ser Ser Ser Tyr Arg Pro Lys Ala 1 5 10 ate tae etg gae ate gat gga ege att eag aag gta ate tte age aag Ile Tyr Leu Asp Ile Asp Gly Arg Ile Gln Lys Val Ile Phe Ser Lys 15 20 25 tae tge aae tee age gae ate atg gae etg tte tge ate gee ace gge Tyr Cys Asn Ser Ser Asp Ile Met Asp Leu Phe Cys Ile Ala Thr Gly 30 35 40	109
etcodecage tecagogogo getggegteg qgaaagtata gtaaaaagte egagtgeage eggeegggege agg atg gga tee gge too tee ago tae egg eee aag gee Met Gly Ser Gly Ser Ser Ser Tyr Arg Pro Lys Ala 1 5 10 ate tae etg gae ate gat gga ege att eag aag gta ate tte age aag He Tyr Leu Asp He Asp Gly Arg He Gln Lys Val He Phe Ser Lys 15 20 25 tae tge aae tee age gae ate atg gae etg tte tge ate gee ace gge Tyr Cys Asn Ser Ser Asp He Met Asp Leu Phe Cys He Ala Thr Gly 30 35 40 etg eet egg aae aeg aee ate tee etg etg ace ace gae gae gee atg Leu Pro Arg Asn Thr Thr He Ser Leu Leu Thr Thr Asp Asp Ala Met 45 50 55 60	109 157 205

							gtt 7al 100									397
аа а Буга	ard Ile 110	aat Ash	gaa Jiu	ctg Leu	aaa Lys	gct Ala 115	gaa Glu	gtt Val	gca Ala	aat Asn	cat His 120	ttg Leu	get Ala	gtc Val	cta Leu	445
							gga Gly									493
							atg Met									541
							aag Lys									589
							gtt Val 180									637
							otg Seu									685
utt Geu 205	tgg Tip	gag Glu	edd Pro	aat Asn	gag Glu 210	atg Met	atg Leu	agc Ser	tge Gys	otg Leu 215	dag Glu	ca: His	atq Mer	tac Tyr	cac His 220	733
							tto Phe									781
							Asp Jac									829
			ніз	Jys		Cys	gtg Val 260									877
							aag Lys									925
							cac His									973
							ege Arg									1021
							ca: His									1069

oto goi gag oct Leu Ala Giu Pro 335					1117
tto aag dag ato Phe Lys din lie 350	oga dag gga Ang Gln Gly 355	atg atc aca Met Ile Thr	tta atc ttg Leu Ile Leu 360	god adt gam Ala Th: Asp	1165
atg goa aga cat Met Ala Ang His 365					1213
aat tit gas tac Ash Phe Asp Tyr	ago aac gag Ser Asn Glu 335	gag cat atg Glu His Met 390	ace etg etg Thr Leu Leu	aag atg att Lys Met Ile 39%	1261
tig ata awa tgo Wew Ile Lyb Cys 400					1309
gda gag oet tgg Ala Glu Pro Trp 415	gtg gad tgt Tal Asp Cys	tta tta gag Leu Leu Glu 420	gas tat ttt Glu Tyr Phe 425	atq daq ago Met Gln Ser	1357
gab ogt gag aag Asp Arg Gin Lys 430					1405
gac aaa gtg acc Asp Lys Va. Th: 145					1453
otg ato oca atg Weu Ile Pro Met					1501
gag atc atg ctg Glu Ile Met Leu 480					1549
otg aag ogg ata Leu Lys Arg Ile 495		Met Lys Glu	Leu Gln Lys		1597
age ttg acg tet Ser Leu Th: Ser 510					1645
gtg aaa aac agt Val Lys Aan Ser 525			ggaaago gggg	ggogtg	1692
gotgoagtto toga	eggget ggeeg	agctg cgcgjg	ator tigigoaq	ggg aagagetgee	1752
otgggdadot भ्यून्य	ccacaa gacca	tgttt tctaag	aac: attttgt!	tca ctgataaaaa	1812

3 3 0

aaaaaaaaa ggaattoatg atgotgraca gaattttatt tttaaactgt cttttaaata 18% atatattott atacg 18%

1 5 10 15

The Asp Gly Arg He Gln Lys Val He Phe Ser Lys Tyr Cys Asn Ser

Ser Asp Ile Met Asp Lew Phe Cys Ile Ala Thr Gly Lew Pro Arg Asn

Thr Thr Ile Ser Leu Leu Thr Thr Asp Asp Ala Met Val Ser Ile Asp 50 55

Pro Thr Met Pro Ala Asn Ser Glu Ang Thr Pro Tyr Lys Val Ang Pro 65 70 75 80

Val Ala the Lys Gin Leu Ser Glu Arg Glu Glu Leu Ile Gln Ser Val 35 90 95

Leu Ala Gir Val Ala Giu Gin Phe Ser Arg Ala Phe Lys Ile Ash Giv 100 105 110

Leu Lys Ala Glu Vai Ala Asn His Leu Ala Val Leu Glu Lys Arg Val 115 120 125

Glu Leu Glu Gly Leu Lys Val Val Glu He Glu Lys Cys Lys Ser Asp 135 140

Ile Lys Lys Met Arg Glu Giu Leu Ala Ala Arg Ser Ser Arg Thu Asn 145 150 155 160

Cys Pro Cys Lys Tyr Ser Phe Leu Asp Asn His Lys Lys Leu Thr Pro 165 170 175

Arg Arg Asp Val Pro Thr Tyr Pro Lys Tyr Leu Leu Ser Pro Glu Thr

Ile Gl. Ala Leu Arg Lys Pro Thr Phe Asp Val Trp Leu Trp Glu Pro 195 200 205

Ash Glu Met Deu Ber Dys Leu Glu His Met Tyr His Asp Leu Gly Deu 215 - 220

Val Ard Asp Phe Ser Ile Asn Pro Val Thr Leu Arg Arg Trp Leu Phe 225 230 235 240

Cys Val His Asp Ash Tyr Arg Ash Ash Pro Phe His Ash Phe Arg His 245 250 255

Cys Phe Cys Val Ala Gin Met Met Tyr Ser Met Val Trp Leu Cys Ser 255 Leu Gln Glu Lys Phe Ser Gln Thr Aspille Leu Ile Leu Met Thr Ala Ala Ile Cys His Asp Leu Asp His Fr. Sly Tyr Asn Asn Thr Tyr Gln 295 lle Asn Ala Arg Thr Glu Leu Ala Mal Arg Tyr Asn Asp Ile Ser Pro 315 31) Ten Gli Agn Hig Hig Cyc Ala Mal Ala Phe Gln Tle Len Ala Gli: Pro Glu Cys Asn Ile Phe Ser Asn Ile Pro Pro Asp Gly Phe Lys Gln Ile Arg Gln Gly Met Ile Thy Leu Ile Leu Ala Thr Asp Met Ala Arg His Ala Glu Ile Met Asp Ser Phe Lys Gru Lys Met Glu Asn Phe Asp Tyr 375 Ser Ash Glu Glu His Met Thr Leu Leu Lys Met Tle Leu Ile Lys Cys Cys Asp Ile Ser Ash Ciu Val Arg Pro Met Glu Val Ala Glu Pro Irp 405 410 Val Asp Cys Leu Leu Glu Glu Tyr Phe Met Gln Ser Asp Arg Glu Lys Ser Blu Gly Leu Pro Mal Ala Pro Phe Met Asp Arg Asp Lys Mal Thr 440 Lys Ala Thr Ala Gln !ie Gly Phe Tie Lys Phe Val Leu Ile Pro Met 455 Phe Glu Thr Val Thr Lys Leu Phe Pro Met Val Glu Glu Ile Met Leu 475 430 Gln Pro Leu Trp Glu Ser Arg Asp Arg Tyr Glu Glu Leu Lys Arg Ile 485

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Glu Gly Asp Cys Ala

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tgo aad too a Oys Asn Ser S	age gac atc (Ser Asp Ile 1 23	atg gad otg Met Asp Seu Ly	tto tgo atc Phe Dys Ile	gec act gge Ala Thr Gly 30	ctg 97 Leu										
oot ogg aad a Pro Arg Asn I 35	-		-		-										
tod ato gad o Ser Ile Asp E 50															
qtg aga dot g Yal Arg Pro V 65															
aga add ada a Arg Thr Thr S															
ogg gtt gtg g Arg Val Val G															
gga cag gta g Gly Gln Val G 115															
ggo dag ogd a Gly Gln Arg I 130	Ile Pro Pro		E-		_										
gog dag gtt g Ala Gln Val A 145															
aaa got gaa g Lys Ala Glu V															
ttg gaa gga t Leu Glu Gly L															
aag aag atg a Lys Lys Met A 195	agg gag gag : Arg Glu Glu :	etg gra ger Leu Ali Ala 20	aga agc agc Arg Ser Ser	agg acc aac Arg Thr Asn 205	ta : 625 ලැය										

dad Pro	tgt Cys 210	аад Lys	tac Tyr	agt Ser	ttt Phe	ttg Leu 215	gat Asp	aac Asn	cac His	aag Lys	aag Lys 220	ttg Leu	act Thr	cot. Pro	cga Arg	673
ago Ang 125	gat Asp	gtt Val	eca Pro	act Thr	tad Tyr 230	odd Pro	aag Lys	tac Tyr	ctg Lei	oto Leu 235	tot Ser	eca Pro	gag Glu	acr In:	atc Ile 240	721
gag Glu	god Ala	etg Leu	cgg Arg	aag Lys 245	ccg Pro	acc Thr	ttt Phe	gac Asp	gto Val 250	igg Trp	ott Leu	tgg Trp	gag Glu	000 Pro 255	aat Asn	769
gag Hig	atg Mot	atg Lou	age Jes 260	tgc C/s	ctg Leu	gag Gl.	cac His	atg Met 265	tac Tyr	рар Нів	gac Asp	cts Leu	999 Gly 270	otq Leu	gtc Val	817
						cet Pro										865
gto Val	cac His 290	gac Asp	aac Asn	tac Tyr	aga Arg	aac Asn 293	aac Asn	ada Pro	ttc Phe	cac His	aac Asn 300	tto Phe	ogg Arg	cac His	tgc Cys	913
						atg Met										961
						acg Thr										1009
						cat His										1057
						geg Ala										1105
Glu		His	His	Cys	Āla	gtg Val 375	Ála	Phe	Gln	Ile	Leu	Ala				1153
						at∈ Il⊷										1201
						atc Il÷										1249
						aaa Lys										1297
aac Asn	gag 3lu	gag Glu	cac His	atg Met	acc Thr	ct: Le.	itg Leu	aag Lys	atg Met	att Ile	ttg Leu	ata Ile	aaa Lys	tyc Cys	tgt Cys	1345

		435					440					445				
gat : Asp .																1393
gar (Asp (1447
gaa (Glu (1489
god a Alaif																1537
gaa a Glu 1																1585
cca (Pro i																1633
gac o Asp 2 545				-		_	_	_		_						1681
god (Ala 1																1729
gga q Gly /				tgag	ggaaa	age g	99999	ggcgt	ig 40	etgea	agtto	c tgg	gacgo	ggat		1781
ggac	gago	ctg o	gegg	ggato	da tit	gtgd	caggg	g aag	gagct	.gcc	ctg	ggcad	dat k	4gca¢	ccacaa	1841
дасса	atgt	tt t	ctaa	agaad	cc at	tttg	gttca	a cto	gatad	caaa	aaaa	аааа	aaa 🤄	ggaat	tcatg	1901
atigo	tgta	aca g	gaatt	ttat	ct tt	taaa	actgt	c ot1	ttaa	aata	atat	tatto	ctt :	atlacg	ggaaaa	1961
зазаа	âā															1967
<210 <211 <212 <213	5 5 8 5 PF 5 Ho	BO RT omo s	sapie	ens												
< 4.00	⊃ Zl Lau	700	т1	λας	21۰۰	Ara	Tlo	Gla	Liza	175 l	Tla	Dhe	261	Lare	Tyr	

Tyr Leu Asp Ile Asp Gly Arg Ile Gln Lys Val Ile Phe Ser Lys Tyr 1 5 10 15

Cys Asn Ser Ser Asp Ile Met Asp Leu Phe Cys !le Ala Thi Gly Leu 20 25 30

Pro Arg Asn Thr The The Ser Leu Leu Thr Thr Asp Asp Ala Met Wal Ser Ile Asp Pro Th: Met Pro Ala Ash Ser Glu Arg The Pro Ty: Wys Val Arg Pro Val Aia He Lys Gln Leu Ser Ala Asp Val Glu Asp Lys Arg Thr Thr Ser Arg Bly Gln Ser Ala Glu Arg Pro Leu Arg Asp Arg Arg Val Val Gly Leu Glu Gln Pro Arg Arg Glu Gly Ala Phe Giu Ser Gly Gln Val Glu Pro Arg Pro Arg Glu Pro Gln Gly Cys Tyr Gln Glu Gly Gln Arg Ile Pro Pro Glu Arg Glu Glu Leu Ile Gln Ser Val Leu Ala Gln Val Ala Glu Gln Phe Ser Arg Ala Phe Lys Ile Asn Glu Leu 150 155 Lys Ala Glu Val Ala Asn His Leu Ala Val Leu Glu Lys Arg Val Glu Leu Glu Gly Leu Lys Val Val Glu Ile Glu Lys Cys Lyr Ser Asp Tte 185 Lys Lys Met Arg Glu Glu Leu Ala Ala Arg Ser Ser Ard Thr Ash Cys Pro Cys Lys Tyr Ser Phe Leu Asp Asn His Lys Lys Leu Thi Pro Arg Arg Asp Val Pro Thr Tyr Pro Lys Tyr Leu Leu Ser Pro Glu Thr He 230 235 Glu Ala Leu Arg Lys Pro Thr Phe Asp Val Trp Leu Trp Glu Pro Asn 250 245 Glu Met Leu Ser Cys Leu Glu His Met Tyr His Asp Leu Gly Leu Val 265 Arg Asp Phe Ser Ile Ash Pro Val Thr Leu Arg Arg Tip Leu Phe Cys Val His Asp Asr Tyr Arg Asn Asn Pro Phe His Asn Pho Arg His Cys 295 Phe Cys Val Ala Gln Met Met Tyr Ser Met Val Trp Le. Cys Ser Leu 315 Gln Glu Lys Phe Ser Gln Thr Asp Ile Leu Ile Leu Met Thr Ala Ala 330

Ile Cys His Asp Leu Asp His Pro Gly Tyr Asn Asn Th: Tyr Gln Ile

			340				345				350			
Asn	Ala	_			Aia						Ser	Pro	Leu	
Glu					Tal 375					Ala	Glu	Pro	Glu	
-		~ 1	51	C	 T 1 -	5	D	3	 D1	T	~1	F1.	3	

Cys Asn Ile Phe Sar Asn Ile Pro Pro Asp Gly Phe Lys Gln Ile Arg 385 390 395 400

Gln Gly Met Ile Thr Leu Ile Leu Ala Thr Asp Met Ala Arg His Ala 405 410 415

Glu Ile Met Asp Ser Phe Lys Glu Lys Met Glu Asn Phe Asp Tyr Ser 420 425 430

Ash Glu Glu His Met Thr Leu Leu Lys Met Ile Leu Ile Lys Cys Gys 435 445

Asp Ile Ser Ash Olu Val Arg Pro Met Glu Val Ala Glu Pro Trp Val 450 455 460

Asp Cys Leu Leu 3 u Glu Tvr Phe Met Gln Ser Asp Arg Glu Lys Ser 465 470 475 480

Glu Gly Leu Pro Tal Ala Pro Phe Met Asp Arg Asp Lys Val The Lys 485 490 495

Ala Thr Ala Gln ite Giy Pne Ite Lys Phe Val Leu Ite Pro Met Phe 500 505 510

Glu Thr Val Thr bys Leu Phe Pro Met Val Glu Glu Gle Met Leu G.n. 515 520

Pro Leu Trp Glu Ser Arg Asp Arg Tyr Glu Glu Leu Lys Arg lle Asp 530 535 540

Asp Ala Met Lys 3.u Leu Gln Lys Lys Thr Asp Ser Leu Thr Ser Gly 545 550 560

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Gly Asp Cys Ala

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<211> 1457

<212 - DNA

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<220>

<221> CDS

(222% (184)... (183)

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ggaaagtada gtaaaaagtd ogagtgdagd ogddgggdgd agg atg gga tod ggo Met Gly Ser Gly 1	175
too too ago tao ogg ood aag god ato tao otg gad ato gat gga ogg Ser Ser Ser Tyr Amg Pro Lys Ala The Tyr Leu Asp The Asp Gly Amg 5 10 15 20	223
att dag aag gta atd tto agd aag tad tgo aad too agd gad atd atg The Glm Eys Cal Ilo Obo Don Eys Tyr Gys Asn Ser Ser Asp Ile Met 25 30 35	271
gao otg tto tgo ato god aco ggo otg oot ogg aac aco ato too Asp Leu Phe Dys lie Ala Tar Gly Leu Pro Arg Asn Thr Thr Ile Ser 40 45 50	319
otg otg acc act gad gad god atg gtd tod atd gad occ acc atg occ Leu Leu Thr Thr Asp Asp Ala Met Val Ser Ile Asp Pro Thr Met Pro 55 60 65	367
gog aat toa gaa ogo abt obg tab asa gtg aga bot gtg god ato aag Ala Ash Ser Glu Arg Thr Pro Tyr Dys Val Arg Pro Val Ala Ile Dys 70 75 80	415
caa ctc too gag aga gaa tta atc cag ago gtg ctg gog cag gtt Gln Leu Ser Glu Arg Glu Glu Leu Ile Gln Ser Val Leu Ala Gln Val 85 90 95 100	463
goa gag dag the toa aga goa the aaa ato aat gaa ctg aaa got gaa Ala Glu Gln Phe Ser Arg Ala Phe Lys Ile Asn Glu Leu Lys Ala Glu 105 110 115	511
gtt gca aat dad tig got gtd dia gag aaa dgd gig gaa tig gaa gga Val Ala Ash His Leu Ala Val Leu Glu Lys Arg Val Glu Leu Glu Gly 100 125 130	559
cta aaa gtg gtg gag att gag aaa tgc aag agt gac att aag aag atg Leu Lys Val Val Glu Ile Glu Lys Cys Lys Ser Asp Ile Lys Lys Met 135 140 145	607
agg gag gag otg gog god aga ago ago agg aco aac tgo occ tgt aag Arg Glu Glu Leu Ala Ala Arg Ser Ser Arg Thr Asn Cys Pro Cys Lys 150 155 160	655
tac agt tit til gat amb bac aag aag tig act bot oga oge gat git Tyr Ser Phe Leu Asp Asm His Lys Lys Leu Thr Pro Arg Arg Asp Val 165 170 175 180	703
ccc act tac ecc and the ctg ctc tct ccn gag acc atc gag gcc ctg Pro Thr Tyr Fro Lys Tyr Leu Leu Ser Pro Glu Thr Ile Glu Ala Leu 185 190 195	751
cgg aag bog aco tit gad gid tgg dit tgg gag bod aat gag atg big Arg Lys Pro Thr Phe Asp Val Trp Leu Trp Glu Pro Asn Glu Met Leu	799

	200	205		210	
			oto 999 etg gto Leu Gly Leu Val 225	Arg Asp Phe	847
age atc aac Ser Ile Asn 230	Pro Val Thr	oto agg agg Leu Arg Arg 235	rgg otg tto tgo Trp Leu Phe Cys 240	gto cac gac Val His Asp	895
			tto ogg dad tgd Phe Arg His Cys 253		943
			ito tgo agt oto leu Cys Ser Les 270		991
			atg aca gog god Met Th: Ala Ala		1039
			acg the dag ato The Tyr Cln Ile 305	Asn Ala Arg	1087
	Ala Val Arg		nto toa dog otg The Ser Pro Deu 320		1135
dad tgd gdd His Cys Ala 325	gtg gdd ttd Val Ala Phe 330	dag atc con Gln fle Leu	qoo gag cot gag Ala Glu Pro Glu 335	tgc aac atc Cys Asn Ile 340	1183
			aag dag atd oga wys 31m fle Arg 350		3231
atc aca tta Ile Thr Leu	atc ttg gcc Ile Leu Ala 360	act gac and Thr Asp Met 365	gda aga dat gda Ala Arg His Ala	gaa att atg Glu Ile Met 370	1279
			ttt gad tad agd Phe Asp Tyr Ser 385	Asn Glu Glu	1327
			ata ass tgc tgt Ile Lys Cys Cys 400		1375
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J J _	tat ttt atg Tyr Phe Met 425				1457

210 - 23

.211 - 430

- 212 - PPT

<213> Homo sapiens

400 - 23

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He Asp Gly Arg He Gln Lys Val He Phe Ser Lys Tyr Cys Asn Ser 20 25 30

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Thr Thr Ile Ser Leu Leu Thr Thr Asp Asp Ala Met Val Ser Ile Asp 50 55

Pro Thr Met Pro Ala Asn Ser Glu Arg Thr Pro Tyr Lys Val Arg Pro 65 70 75 80

Val Ala Ile Lys Gln Leu Ser Glu Arg Glu Glu Leu Ile Gln Ser Val 85 90 95

Leu Ala Oln Val Ala Glu Gln Phe Ser Arg Ala Phe Lys Ile Ash Glu 100 105 110

Leu Lys Ala Glu Val Ala Asn His Leu Ala Val Leu Clu Lys Arg Val 115 120 125

Giu Leu Glu Gly Leu Lys Val Val Glu fle Glu bys Cys Lys Ser Asp 130 135 140

The Lvs Lvs Met Arg Glu Glu Leu Ala Ala Arg Ser Ser Arg Thr Asn 150 155 160

Cys Pro Cys Lys Tyr Ser Phe Leu Asp Asn His Lys Lys Leu Thr Pro 165 170 175

Arg Arg Asp Val Pro Thr Tyr Pro Lys Tyr Leu Leu Ser Pro Glu Thr 180 185 190

Ile Glu Ala Leu Arg Lys Pro Thr Phe Asp Val Trp Leu Trp Glu Pro 195 200 205

Asn Giu Met Leu Ser Cys Leu Glu His Met Tyr His Asp Leu Gly Leu 210 220

Val Arg Asp Phe Ser Ile Asn Pro Val Thr Leu Arg Arg Trp Leu Phe 225 230 236 240

Gys Val His Asp Asn Tyr Arg Asn Asn Fro Phe His Asn Phe Arg His 245 ± 50

Cys Phe Cys Val Ala Gln Met Met Tyr Ser Met Val Trp Leu Cys Ser 260 265 270

Leu Gin Glu Lys Phe Ser Gin Thr Asp lie Leu He Leu Met Thr Ala

2.15 280 285

Ala Ile Cys His Asp Leu Asp His Pro Gly Tyr Asn Asn Thr Tyr Gln 290 295

lle Ash Ala Arg Thr Glu Leu Ala Val Arg Tyr Ash Asp lle Je: Pro 315

Leu Bin Ash His His Cys Ala Val Ala Phe Gln Ile Leu Ala Bhu Pro 325

Glu Cys Asn Ile Phe Ser Asn Ile Pro Pro Asp Gly Phe Lys Gln Ile 345

Ang The Gly Met IIe Thr Leu Ile Leu Ala Thr Asp Met Ala Arg His

Ala St. Ile Met Asp Ser Phe Lys Glu Lys Met Glu Asm Ph∈ Asp Tyr 375

Ber Asr Glu Glu His Met Thr Leu Leu Lys Met Ile Leu Ile Lys Cys

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3400 - 24

Asp The Lys Asp Asp Asp Asp Lys

42105 25

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.010 - DNA

213 · Artificial Sequence

220-

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110 - 26 111 - 18

.212 - DNA





<213> Artif. mai Sequence

<220>

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<400> 26

cgaggagtca actining

1.3